BLOCK NOTAS

9728 - 9803

Arthur Cronquist
New York Botanical
Garden
New York 58, N.Y.
U.S.A.

G 728 - October 25, 1962
Open, grassy, grazed pine grove, 6 miles north of Ario de Rosales, state of Michoacan, Mexico. Elevation about 7000 feet. Stems mostly solitary. Heads yellow, with ~~mostly~~ 8 flowers. Rays none. Pappus of about 10 scales.

Calea scabra (Eng.) Rob.

L. 581

Calea (5)

9729 - October 25, 1962
Same place as 9728.
Heads yellow, with 14-18
rays. Rays neutral.
Pappus none.

Viguiera hemsleyana Blake

Helianthus (1)

9730 - October 25, 1962

~~Overhanging gully~~

Banks of gully in ravine in pine-oak woods 4 miles south of Acio de Rosales, state of Michoacan, Mexico. Elevation about 5300 feet. Shrubs 2-3 m. tall, overhanging the gully and somewhat drooping, with white flowers and flat sprays of leaves.

Eupatorium areolare DC.

Eupatorium (11)

9731 - October 29, 1962
Abandoned grassy pasture
with scattered acacias
in oak zone 10 miles south
of Ciudad Rosales, state
of Michoacan, Mexico.
Elevation about 4700 feet.
Heads yellow, with mostly
5 rays. Plants pleasantly
aromatic, the odor some-
what like that of lemons.
Pappus of 5 unequal long scales,
three connate for much of their
length, one or two much
longer than the others and
tapering to a flat awn-tips.

Tagetes subulata Cerv.

Tagetes (11)

9732 October 25, 1962
Pasture in oak zone 12 miles south of Ario de Rosales, state of Michoacan, Mexico. Elevation about 4,500 feet. Scrambling vine-shrub, climbing on bushes and small trees. Heads yellow, with 5-8 rays.

Bidens squarrosa HBK.

Bidens (8)

9733 - October 29, 1962
Thin soil around rocks
in light shade in ravine
in pine-oak zone 13
miles south of Rio de
Rosales, State of Michoacan,
Mexico. Elevation about
4400 feet. Disk yellow;
rays white, 3 or sometimes
4? Ray and disk-flowers both
fertile, Pappus none. Phyllaries
subtending the rays each weakly
joined to the 2 adjacent
receptacular bracts, partly
enclosing the ray achenes.

Galinsoga (Stemotella)
urticifolia (HBK.) Benth.

Galinsoga (10)

9734 - October 25, 1962
In open pine-oak woods in ravine 15 miles south of Ario de Rosales, state of Michoacan, Mexico. Elevation about 4200 feet. Flowers white or faintly lavender-pink.

Stevia aschenborniana Sch.-Bip.

hairy Stevia (10)

9735 - October 23, 1962
Same place as 9734.
Flowers white.

Piqueria laxiflora Rob. & Seat.

✓

with
smooth stems (9)

1736 October 26, 1962
Oak-palm region 22 miles
south of Ciudad Bolivar,
state of Bolivar,
Venezuela. Elevation 2700 feet.
Plant very. Flowers lavender

Eupatorium odoratum L.

Zexmenia crocea Gray

Ray robust fertile, triquetrous, with 1 long, palaeaceous winged arm and 2 short ones. Disk achenes flattened, the arms on the inner angle elongate, palaeaceous-winged, the one on the outer-ying somewhat shorter, flattened but not winged.

Notoptera tequilana (Gray) Blake

1934 — Between 2 Cities
[illegible] Between
Detroit about 33 miles
[illegible] Entrance of Lake
[illegible] Lake, State of Michi-
gan, Wayne, Monroe
[illegible] Eastern
[illegible].

[illegible]

Barreetia sessilifolia
Greenm.

Dicke weiße, traurig rot-
fleckig in age. Raps klebrig
trocknet, traurig 5,
auf der rechten Tab.

[illegible]
Second growth in part
[illegible] 15 [illegible]
[illegible]
[illegible]
[

Eupatorium collinum DC.

1744 Oct 18, 1963
Same place as 1743.
Slender, scarcely branched shrub 2-3 m. tall. Disk yellow. Rays white, mostly 2-3, rarely 4-5.

Montanoa subtruncata Gray

Melampodium perfoliatum
HBk.

October 22, 1962
Open oak woods on hillsides in foothills about 13 road miles south of Uruapan, State of Michoacan, Mexico. Elevation about 3500 ft. Stems mostly buried in soil and matted together. Stems 1-2 m. tall, branching & rebranching many times. Flowers [illegible]

Bolanosa coulteri Gray

Ophryosporus petraeus (Rob.) R.

2,148 – October 26, 1962
same place as 2,147. Stems
[illegible] weedy, somewhat
[illegible], [illegible]
[illegible] calf. Flowers white.

Eupatorium incomptum DC.

[illegible] - Oct. 23, 1962.
Stem pale green, [illegible]
[illegible] hairy, [illegible]
[illegible] 1.5 m.
[illegible] Leaves [illegible].
Receptacle naked.

Ageratum salicifolium Hemsl.

9,750 - October 28, 1962.

[illegible]

13 road miles south
Uruapan, [illegible]
Michoacan, Mexico
Elevation about 3500 ft.
Stems about 1.5 m. tall,
[illegible]

Lagascea heteropappus Hemsl.

Leaves ternate

Liabum glabrum Hemsl.
var. hypoleucum Greenm.

Liabum ④

252 - August 28, 1962
Leon, Graded Ranks are
[illegible] 11 [illegible]
[illegible] 5-3 m. tall [illegible]
[illegible] stamens [illegible]
[illegible] Receptacle chaffy,
the pales deciduous.

Determ. by [illegible] D.

Oct. 28, 19--

Vernonia serratuloides HBK.

[illegible] - October 28, 1922
[illegible] pine woods
[illegible] stems, 6 inches in diameter
[illegible] Elevation about
[illegible]. Corolla white
2 - Umbels: Heads yellow,
[illegible] about 8 or
about 13 mm.

Verbesina greenmani Urban

1 to 1 - October 28, 1962.
Open oak-pine woods
about 6 miles northeast
of Los Reyes, state of
Michoacan, Mexico.
Elevation about 4700 feet.
Plants about 1 m. tall,
branching at the base.
Heads yellow. Ray achenes
fertile, triquetrous with 3
wings and 3 awns. Disk
achenes flattened, with 2
wings and 2 awns.

Verbesina sphaerocephala Gray

Verbesina (5)

9756- October 29, 1962
Savanna land 8 miles
west of Jiquilpan, state
of Michoacan, Mexico.
Elevation 6200 feet.
Scrambling up through
clearings & brush, 2-3
m. tall. Flowers white
or sometimes faintly
lavender.

Eupatorium brevipes DC.

[illegible] Oct. 29, 1962
Along a cool forested
[illegible] highway and a pasture in
[illegible] Tamaulipas country
[illegible] several miles west
of Jaumave,
[illegible] Tamaulipas, Mexico,
[illegible] 4,000 ft.
[illegible] plant 2.5 m. tall.
[illegible] yellow

Trixis rugulosa Robins. &
Greenm.

Trexis (5)

9758 - Oct 6 (cw) 29 (1952)
Open savanna country
23 ~~road~~ road miles west of
Kinshasa, state of Michoacan,
Mexico. Elevation about 6100
ft. Spreading shrub
about 1 m. tall and at least
as wide. Abundant, with
many plants in bloom.

Senecio stoechadiformis DC.

Partial rim of the giant
[illegible] mile west of
Grindelia, state of
Washington, Wilbur, Elevation
about 6000 feet. Plants
much over a meter about
[illegible] arising from a [illegible]
- Biennial (mostly biennial?)
Involucre. Heads yellow, ray
ones 13, sometimes
as few as 8.

Grindelia subdecurrens DC.

[illegible] October 29, 1962
Open pine-oak zone
17 road miles northeast
of Tamazula, state of Jalisco,
Mexico. Elevation about 4900
ft. Shrubs 1-2 m. tall.
Heads yellow, with 5-10
rays, heads often irregularly
2-4. Rays fertile, with 3
triquetrous, 3-winged, 3-awned
achenes. Disk achenes flattened,
winged, with 4 pappus awns.

Verbesina sp. aff. V. serrata Cav.

[illegible] 29, 1962
Plants in less [illegible] places
in small ravine in each zone
about 17 road miles
[illegible] of Tamazula,
[illegible] Mexico, Mexico;
[illegible] Agoseris,
[illegible], Rangel 61,
[illegible] 3, Dieterle
[illegible] 1-2 m. tall.
[illegible] number det. by
G. L. Turner as n = ca. 19 + 2
supernumeraries.

Calea urticifolia (Mill.) DC.

[illegible] Helianthus (4)

9762 - October 29, 1965
Lithospheric deciduous
forest on Zonotrichia
4 grandifolia north
of Tecalitlan, state of
Jalisco, Mexico. Elevation
about 3800 feet. Shrub
1-3 m. tall.

[illegible]

[illegible]

[illegible]

9764 - October 29, 1962
Dry tropical deciduous forest
along border of Pinturano, state of
[illegible], about 7 road miles
from the border of Colima,
Mexico.

[illegible] about 2 meters
[illegible] about 2 in. tall.
[illegible] rather slender and
[illegible] branches [illegible]
[illegible] on the [illegible]
[illegible]
[illegible]
[illegible]

Liabum caducifolium Robins.
& Bartlett

[illegible] (1)

Liabum glabrum Hemsley
var. hypoleucum Greenm.

9766 Aug. 31, 1921.
Open places in oak pine
woodland area on the east
side of the Nevado de
Colima, about 30 miles
west of Ciudad Guzman,
state of Jalisco, Mexico,
elevation about 6500 ft.
Shrub about 2 m. tall.
Heads in clusters, mostly with
about 13 ray achenes and
several disk. Pappus none

Viguiera hypochlora (Bake) Blake

9761 Collected Dec. 31, 1962
in open places, especially
in moist small, rocky
draws, in pine-pine
woodland on the
mountain slopes of the
Llano de Colima, about
2½ mi. southwest of
Ciudad Guzman, State of
Jalisco, Mexico. Elevation
about 6100 feet. Corolla
heads mostly 2-3 mm tall,
mostly clustered. Rays
yellow, with mostly 5 rays.
Chromosome number det. by B.L. Turner
as n = 30 + 1 Fragment.

Senecio hederoides Greenm.

9763. October 31, 1902
Overhanging a high
stream bank in pine and
mixed woods on the northeast
side of El Nevado de Colima,
about 12 or 14 miles east
of Lake Zapalan, state
of Jalisco, Mexico. Elevation
about 5700 feet. Growing
in small patches nearly 2-3 m.
tall. Flowers white.

Eupatorium aroolare DC.

0764 - October 31, 1962

Perezia rigida (DC.) Gray

9770 - October 31, 1942
Weed along stone fences
at margins of cornfields
about 15 road miles north of
Jamaica and 31 road miles west of
Ciudad Bolivar, state of Bolivar, Venezuela
Plants about 43 cm. tall
Branching, slender shrubs
about 2 m. tall
Flowers yellow

Lagascea decipiens Hemsl.

(1)

[illegible] — October 31, 1960.

[illegible]

[illegible] about 1 mile
northeast of Totalimiya and 32
[illegible]
[illegible]
Elevation about 4000 feet.
Overwintering shoots numerous
3-5 cm. [illegible]
[illegible] 2 or 3, [illegible]

Montanoa myriocephala Robins.
& Greenm.

[illegible]

9772 - October 31, 1962
In thorny scrub woodland dominated by acacia, on slopes of limestone hill about 4 road miles [illegible] 44 road miles west of Ciudad [illegible] state of Nuevo [illegible] elevation about 1 meter. Plants woody 1–1.5 m tall, shrubby to small tree, with several long [illegible] branches of the [illegible]. Heads yellow [illegible] rays, [illegible], and the reduced pappus. Disk achenes hairy. Pappus of several linear scales, 3 of them awn-tipped.
Viguiera dentata (Cav.) Spreng.

[illegible] Sept. 1, 1962
In thin soil on west facing
[illegible] Cliffs [illegible]
[illegible]
Low, 15 [illegible]
Southwest of Cuidad, State
of Jalisco, Mexico.
Subtropical deciduous
[illegible] Elevation
about 3500 [illegible] feet.
Disk yellow. Rays white,
typically 13, neutral
[illegible] nearly as. Disk
[illegible] Quadrangular, with 2
[illegible] scales and 4 shorter,
bristle-tipped [illegible]
scales.

Viguiera tenuis Gray
f. alba (Rose) Blake

9774 - September 1, 1962.
[illegible] on the seaward
slope of the mountains 11
road miles southwest of Antlers,
and 2 road miles southwest
[illegible]. Elevation about
4500 feet.
[illegible] Pinus
[illegible], mixed with Pinus ponderosa
[illegible] with a single main
stem from the base and
2-3 m. tall. Stems up to
[illegible] cm. Bracts
[illegible] orange.

"Cacalia suffulta Greenm."
(not truly a Cacalia)

[illegible] (1C)

[illegible] November 1, 1961
[illegible] paleacea [illegible]
[illegible], arching, [illegible]-
[illegible] simple. About 3 4
cm. tall, hanging out [illegible]
[illegible] branches. Main stem
[illegible], 2-3 cm. thick.
[illegible] on [illegible] 4 5 cm
[illegible] main stem, [illegible]
[illegible] flattening branches.
[illegible] Receptacle
[illegible].

Piptathrix paleacea Crong.,
sp. nov.

9776. November 1, 1962
On slope descending the
oak zone on the seaward slope
of the mountains, 10.5 miles
east-southeast of Antlan, and
1.3 miles ~~east~~ southwest of the
pass between Peaks Antlan
and Pinnacle.
Shrub or tree, 2½ m. high
10 cm. tall and ½ cm. thick
at base, [illegible] leaves light
green.

Euphorbia hebebotrya (DC.)
Hemsl.

Euphorbia (DC.)

[illegible] rocks in gal woods
[illegible] in the soil of
[illegible] (volcanic) origin.
[illegible] mountains 10 or 12 miles
[illegible] of Durban, and
[illegible] the [illegible] state of
[illegible], Natal, Elevation
[illegible] 3000 feet.
[illegible], yellow, with mostly 5 - 7 rays.
Pappus members 3 on ray achenes,
3 - 5 on disk achenes

Oxypappus scaber Benth.

Cotyledon

2773. November 1, 1962
Cash. records near the west
[illegible] Falls about 10
miles southwest of Antlan,
State of Jalisco, Mexico.
[illegible] about 5000 feet

Shrub / 1.5 m. tall.
[illegible] about 21
[illegible]. Ray achenes triquetrous,
3-angled. Disk achenes flattened,
with 2 unequal awns and
several small scales.

? Zexmenia helianthoides [illegible]

9779- November 2, 1942
In mud and rocks along
small stream just
west of Ayutla, and 41
miles north
Autlan, state of Jalisco,
Mexico. Elevation 4250
feet. Heads yellow, with
8-13 rays.

Bidens ferruginosa Sherff
Type collection

Coreopsis cordylocarpa Gray

Helianthus

9780 · [illegible] 2.19-2
[illegible]
Cash yellow. Rayahaud 20,
white.

Aster spinosus Benth.
Unarmed form

[illegible] Nov. 2, 1902
[illegible]
mostly 5-7,
Disk flowers yellow. Rays
1 or 2, very short, white.
Pappus of 2 long awns and
2 unequal broad scales

Tagetes micrantha Cav.

Tagetes (?)

9733 November 2, 1936
Subtropical deciduous forest on south slope (oaks on north slope) about 8 m. east, 1 mile southeast of Sayula, 50 miles northwest of Zapotlan, state of Jalisco, Mexico, elevation about 5000 feet
Tree up to about 10 m. tall, trunk up to 3 dm. thick at base. Heads yellow with 5-8 rays, disk central, with reduced pappus, disk achene, long-hairy, not winged, with a pappus of 2 palaceous awns and several shorter, lacerate, more or less connate scales.

Viguiera quinqueradiata (Cav.) Gray

Helianthus (?)

7763. [illegible] 1962
In oak [illegible]
[illegible]
[illegible] mountains 12 road
miles southeast of Ayutla,
and about 52 road miles
northwest of Autlan, state
of Jalisco Mexico.

Elevation about 5700 feet
Plants leading to become
shrubby at this base. Heads
yellowish.

Ageratella palmeri (Gray) Rob.

Ageratella

9784 November 2, 1912.
Same as 9786

Distyle purple; [illegible] 2-3. [illegible]

Cosmos exiguus Gray

1[illegible] September 2, 1962
[illegible] Verbesina [illegible]
in open, stony soil
(V. stenophylla) [illegible] on
the mountains about 14 road
miles southwest of Ayutla,
and about 54 miles northwest
of Autlan, state of Jalisco,
Mexico. Elevation about
5000 feet.
Shrub or half-shrub 1-2.5 m.
tall. Heads yellow, with
mostly 13 rays, these pistillate
and fertile, with conspicuous
coronas. Pappus a pair of awns,
the rachises flattened, bristly
becoming remotely fringed.

Verbesina stenophylla Greenm.
dupl. det. James Coleman

Verbesina

978. November 2, 1962.
[illegible] in woods
(Quercus macrophylla) in the
mountains [illegible] northeast
of Zapotlán, and about 35 m
west of the northwest of
Cuitlan, [illegible] state of Jalisco,
Mexico. Elevation about
5400 feet. Plants shortly
[illegible] short, [illegible]
[illegible] purple.

Carphochaete grahami Gray

Oct. 2, 1962

Cosmos crithmifolius HBK.

[illegible] - November 2, 1962
Same place as 9767,
Pleasanton, Rare
Months 5 or 8, sometimes
6 or 7. Leaves 2 to 3 short
pinnate, [illegible]

Sides triplinerved HBk.
seneilat.?

[illegible] 3, 1902
[illegible] headed Acacia
[illegible] the [illegible] in
[illegible] [illegible] along the
[illegible] the mountain
[illegible] 28 [illegible] miles [illegible]
of Oyuela, and about 70
[illegible] [illegible] of Quitaro,
[illegible] [illegible], Nuñez,
[illegible] [illegible] 6700
feet.
[illegible] [illegible] [illegible] B.
[illegible] 13, fruiting
and fertile.

Jaegeria macrocephala Less.

[illegible] 5,1 6 3
[illegible]
[illegible]
[illegible]

Siegesbeckia jorullensis
HFK.

[illegible] 3, 1962

[illegible] of
[illegible] 28 mm [illegible]
[illegible] 7.0
[illegible]
[illegible]
[illegible]

[illegible] 0 m.
[illegible]

these sterile with reduced pappus.
achenes thickened, with a pappus
of 2 paleaceous awns and several
[illegible], often minute scales.

9792 - November 3, 1962
Agua Blanca, the road
to Los Tanques along the
coast of the municipio,
about 28 road miles
west of Ixhuatlán, and
about 70 miles northwest
of Durango, state of
Jalisco, Mexico. Common
shrub 6 ft. tall,
flowers dark reddish.

Archibaccharis serratifolia
(H Bk.) Blake

Bidens duranensis Sharff

[illegible] November 3, 1962

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] about 70 [illegible]

[illegible]

[illegible] about 6500 feet [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Trigonospermum melampodioides DC.

Trigonospermum (5)

Eupatorium collinum DC.

9 [illegible] September 3, 1962
[illegible]
[illegible]
[illegible] about 3 miles
[illegible]
about 70 miles northeast of
Durban, Natal, [illegible]
[illegible] Drakensberg about
6000 feet.
Heads yellow, with 5 rays.
Chromosome number det. by B.L. Turner
is n=30.

Senecio langlassei Greenm.

Eupatorium pulchellum HBK.

[illegible] Nov. 3, 1962
[illegible] 178. Stems
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 8 per head.

Eupatorium cardiophyllum Rob.

Centaurea americana Nutt.

1901 - [illegible] H, 1962.

[illegible]

Viguiera excelsa (Willd.) B. & H.

Spec. Gat.

[illegible]

7802. [illegible]
[illegible] near Pécs as T801. [illegible]
[illegible], [illegible] [illegible]
stem, nearly [illegible]
Dutch borders, [illegible]
Kings, [illegible] [illegible]
Chromosome number det. by R.L.
Turner as n = 11.

[illegible], nearly [illegible]
[illegible] [illegible] Dutch
[illegible] with 6-8 [illegible]
[illegible], [illegible]
[illegible] down.

Cosmos carvifolius Sch. Bip.

[illegible]

[illegible]

[illegible] Central [illegible]
[illegible] of the leaves. This [illegible]
[illegible]. Disk yellow.
K[illegible] B, [illegible] purple,
style. Achenes smooth
1 or 2 short, one [illegible]
beaked [illegible], or [illegible].

Cotula intercedens Shaff.
dupl. det. E. E. Sheff.

Cerro Colorado 73.4

Summit 96.3 ± 5000'
Cuesta 105.5
Cuesta 406
Cuesta de Leones 115.7
Cuesta de Leones Jct. 137.2
Agua Dulce 146.8

9804 – November 4, 1962.
Same place as 9803. Dish yellow, Rays 1-5, typically 5, white

Cala (10) on Sabrina

Tapalapa 753
at 4 Hermanos ~~753~~ 782.3
Apaltepeque 804
Buena vista 824+
Jiquilisco 17021
Salitrillo Lomas 046.1
Pacaltepeque 102
Chinameca 130
Quelepa
entre Colinas 137.7
Colinas 164
Lomita 182.4
Colinas 210
del Guayabo 69.5
Cerro " 85.
Jocoaitique 309.2
Tapalapa 317
Tecapuzapa
Jocoaitique 324.5
Apaneca 331
Tonacatepeque 435
Barra de Santiago 2105

$= 7$

$76 \overline{)562}$

532

40